

Amendments to the Claims

Please amend the claims as set forth below. This listing of claims replaces the claims as now pending in this application:

1. (Previously presented) A laminated structure used for constructing walls, floors, or ceilings or doors comprising:
 - two external layers of a non-metallic material,
 - at least one internal non-honeycomb constraining layer, and
 - two or more internal layers of a viscoelastic glue separated by said at least one internal constraining layer.

2. (Previously presented) A laminated structure used for constructing walls, floors, or ceilings or doors comprising:
 - two external layers of a non-metallic material,
 - at least one internal constraining layer, and
 - two or more internal layers of a viscoelastic glue separated by said at least one internal constraining layer,
 - wherein the constraining layer comprises metal.

3. (Previously presented) The laminated structure as in Claim 1, wherein said two external layers comprise each a selected thickness gypsum board layer.

4. (Previously presented) The laminated structure as in Claim 3, wherein said glue comprises a viscoelastic material capable of absorbing sound.

5. (Previously presented) The laminated structure as in Claim 4, wherein said internal metal layer comprises a sheet metal layer of selected thickness.

6. (Previously presented) The laminated structure as in Claim 5, wherein said sheet metal layer of selected thickness comprises galvanized steel.

7. (Previously presented) A laminated structure comprising:
at least one internal layer of a selected material;
two internal layers of a viscoelastic glue, one such layer on each side of said internal layer; and
at least one additional layer of a non-metallic material on the other side of each internal layer of viscoelastic glue.

8. (Previously presented) The laminated structure as in Claim 7 wherein said at least one additional layer comprises an external layer of a first sound absorbing material.

9. (Previously presented) The laminated structure as in Claim 8 wherein said external layer of a first sound absorbing material comprises gypsum.

10. (Previously Presented) The laminated structure as in Claim 8 wherein said at least one external layer comprises a plurality of layers of selected materials.

11. (Previously Presented) The laminated structure as in Claim 10 wherein said plurality of layers of selected materials comprises:

a first layer of metal;
a second layer of viscoelastic glue; and
a third layer of selected material.

12. (Previously Presented) The laminated structure as in Claim 11 wherein said third layer of selected material comprises gypsum.

13. (Previously Presented) The laminated structure as in Claim 7 wherein said at least one internal layer comprises a metal layer.

14. (Previously Presented) The laminated structure as in Claim 7 wherein said at least one internal layer comprises a cellulose material.

15. (Previously Presented) The laminated structure as in Claim 7 wherein said at least one internal layer comprises a layer of a solid petroleum-based synthetic material selected from the group consisting of a vinyl, plastic composite, or rubber.

16. Canceled

17. Canceled

18. Canceled

19. Canceled

20. Canceled

21. Canceled

22. Canceled

23. Canceled

24. (Currently Amended) A laminated structure used for constructing walls, floors, or ceilings or doors comprising:

two external layers of a non-metallic material,

at least one internal constraining layer, and

two or more internal layers of a viscoelastic glue separated by said at least one internal constraining layer[.];

[[The laminated structure as in claim 1]] wherein the at least one internal constraining layer [[comprises a cellulose material.]] is selected from the group consisting of cellulose, wood, metal, plastic, vinyl, plastic composite and rubber.

25. (Currently Amended) The laminated structure as in Claim 24 wherein said at least one internal constraining layer [[cellulose material]] is wood.

26. (Currently Amended) The laminated structure as in Claim [[1]] 24 wherein said at least one internal constraining layer is [[selected from the group consisting of]]

cellulose[, wood, metal, plastic, vinyl, plastic composite and rubber]].

27 to 39. Canceled

40. (Previously presented) A laminated, sound-absorbing structure which comprises:

a layer of first non-metallic material having two surfaces, one of said two surfaces comprising an outer surface;

a layer of viscoelastic glue on the other of said two surfaces; and

a layer of a second material over said viscoelastic glue.

41 (Previously Presented) A laminated, sound-absorbing structure as in Claim 40 wherein said layer of second material is 1/10th to ½ the thickness of the first material.

42. (Previously Presented) A laminated, sound-absorbing structure which comprises:

a layer of first non-metallic material having two surfaces, one of said two surfaces comprising an outer surface;

a layer of viscoelastic glue on the other of said two surfaces; and

a layer of a second non-metallic material over said viscoelastic glue.

43. (New) A laminated, sound-absorbing structure for use in walls, floors, ceilings or doors which comprises:

a layer of first non-metallic material having two surfaces, one of said two

surfaces comprising an outer surface;
a layer of viscoelastic glue on the other of said two surfaces; and
a layer of a second material over said viscoelastic glue;
wherein said structure is capable of use in walls, floors, ceilings or doors to attenuate sound.

44. (New) A laminated, sound-absorbing structure as in Claim 43 wherein said layer of second material is 1/10th to 1/2 thickness of the first material.

45. (New) A laminated, sound-attenuating structure for use in walls, floors, ceilings or doors, which comprises:

a layer of first non-metallic material having two surfaces, one of said two surfaces comprising an outer surface;
a layer of viscoelastic glue on the other of said two surfaces; and
a layer of a second non-metallic material over said viscoelastic glue;
wherein said structure is capable of use in walls, floors, ceilings or doors to attenuate sound.

46. (New) A laminated, sound-attenuating structure which comprises:

a layer of gypsum having two surfaces, one of said two surfaces comprising an outer surface;

a layer of viscoelastic glue on the other of said two surfaces; and
a layer of a non-metallic material over said viscoelastic glue;
wherein said structure is capable of use in walls, floors, ceilings or doors to attenuate

sound.

47. (New) In combination:

a structure comprising a wall, floor, ceiling or door; and

a panel formed as part of said structure, said panel comprising:

a layer of first non-metallic material having two surfaces, one of said two surfaces comprising an outer surface;

a layer of viscoelastic glue on the other of said two surfaces; and

a layer of a second non-metallic material over said viscoelastic glue;

wherein said panel in combination with said structure, attenuates sound.

48. (New) The combination of Claim 47 wherein said layer of first non-metallic material comprises a layer of gypsum.

49. (New) The combination of Claim 48 wherein said layer of a second non-metallic material comprises gypsum.

50. (New) In combination:

a wall, ceiling, floor or door; and

a sound-attenuating structure formed as part of said wall, ceiling, floor or door, said sound attenuating structure comprising:

a layer of first non-metallic material having two surfaces, one of said two surfaces comprising an outer surface;

a layer of viscoelastic glue on the other of said two surfaces; and

a layer of a second material over said viscoelastic glue.

51. (New) The combination of Claim 50 wherein said first non-metallic material comprises gypsum.

52. (New) The combination of Claim 51 wherein said second material comprises gypsum.

53. (New) A structure as in Claim 50 wherein said layer of a second material is 1/10th to 1/2 the thickness of said first non-metallic material.